The Delphion Integrated View

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Title:

JP10139918A2: POROUS MEMBRANE

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Country:

JP Japan

Kind:

Α

Inventor(s):

NISHIYAMA SOJI YAMAMURA TAKASHI WANO TAKASHI MATSUSHITA KIICHIRO WATANABE YOSHINOBU

Applicant/Assignee:
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Issued/Filed Dates:

May 26, 1998 / Nov. 6, 1996

Application Number:

JP1996000293612

IPC Class:

C08J 9/36; H01M 2/16; C08L 23/02;

Priority Number(s):

Nov. 6, 1996 JP1996000293612

Abstract:

**Problem to be solved**: To obtain a porous membrane improved in strengths, SD(shut-down) function and the easiness of core pull-out by surface-coating a porous membrane made from a thermoplastic resin with a lubricant.



Solution: A thermoplastic resin is mixed with a reagent to be extracted later, and the mixture is molded into a sheet. This sheet is oriented at a temperature as low as -50 to 100°C, then oriented at a temperature as high as 101 to 160°C, and extracted with e.g. a solvent to remove the reagent and to thereby obtain the porous membrane having a thickness of 10-100µm, a porosity of 20-80% and a mean pore diameter of 0.01-1µm. This membrane is surfacetreated with at least one lubricant selected among paraffin waxes, microcrystalline waxes, low-molecular-weight polyethylenes, lowmolecular-weight polypropylenes, fatty acid esters and fatty acid amides in a coating weight W of 0.1-5.0. W is defined by the equation: W=[(W1-W0)/W1]×100 (wherein W1 is the weight of the porous film after being coated, and W0 is the weight of the porous film before being coated). The coated membrane can show improved easiness of core pull-out as well as strengths (e.g. penetration strength) sufficient for battery separators. COPYRIGHT: (C)1998, JPO

See a clear and precise summary of the whole patent, in understandable terms.

Family:

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Other Abstract Info:

CHEMABS 129(05)055224P CAN129(05)055224P DERABS C98-357598

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Foreign References:

No patents reference this one





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